

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P281624

Luminaire Tested: **LDA2B058050D010 EU2B05SP158050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058050D010 EU2B05SP158050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 832.7 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

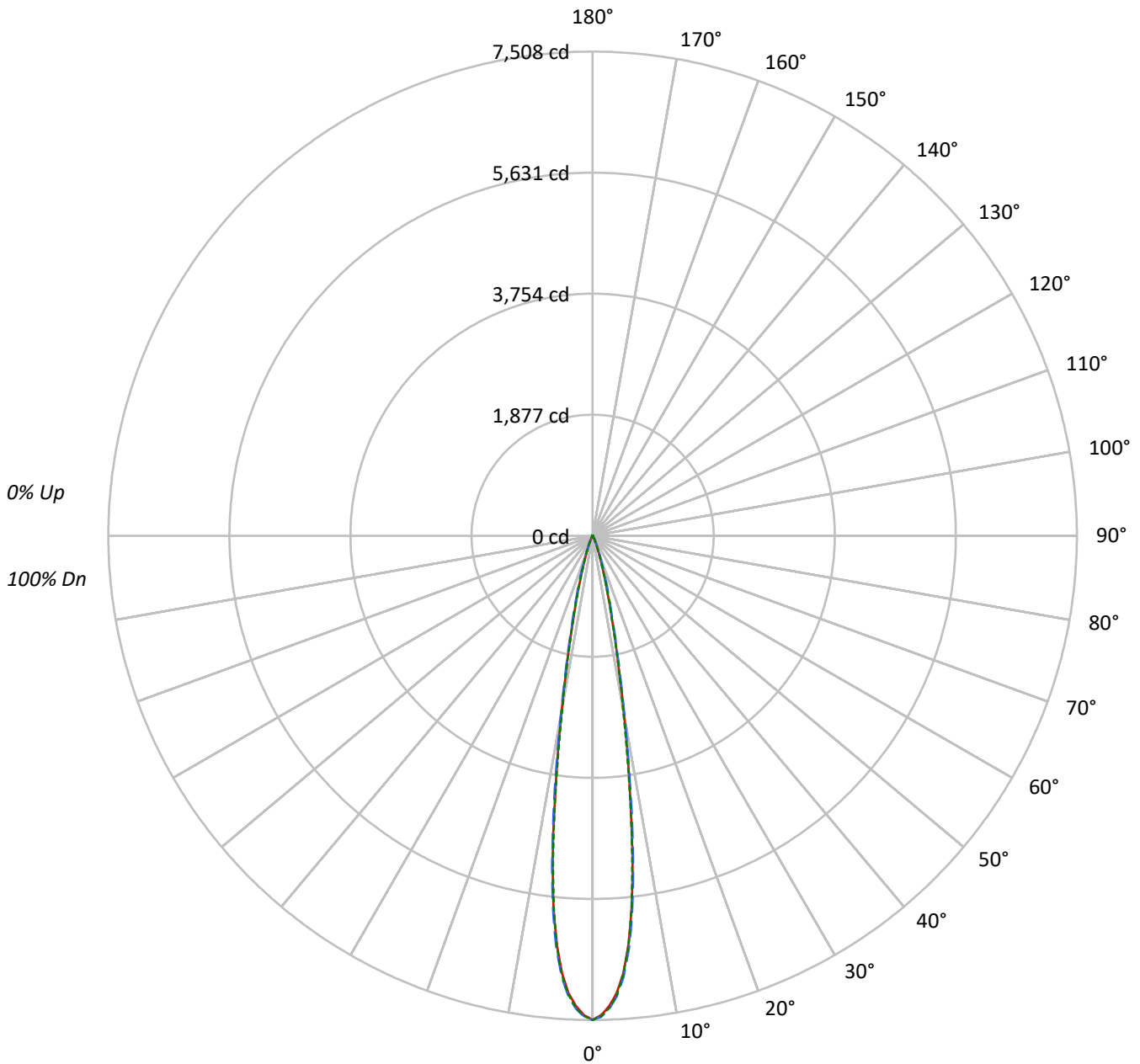
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	87	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3704012	3704012	3704012
5°	3154075	3186910	3160018
10°	1392454	1424315	1359940
15°	422505	484615	429145
20°	126426	168585	141284
25°	49265	48503	51769
30°	21933	19825	20907
35°	4457	3915	3915
40°	0	322	1224
45°	3907	3210	5861
50°	0	1075	3531
55°	0	0	1634
60°	0	493	1875
65°	0	0	1051
70°	0	2741	5337
75°	0	0	0
80°	0	0	0
85°	0	2830	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	58.4
10°-20°	278.0	33.4
20°-30°	52.8	6.3
30°-40°	9.6	1.2
40°-50°	2.5	0.3
50°-60°	1.9	0.2
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	817.4	98.2
0°-40°	827.0	99.3
0°-60°	831.4	99.8
0°-90°	832.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7508	7508	7508	7508	7508	
5°	6369	6410	6435	6424	6381	484
15°	827	900	949	891	840	263
25°	90	97	89	102	95	47
35°	7	9	6	8	6	10
45°	6	9	5	5	8	3
55°	0	0	0	0	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7507.7	7507.7	7507.7	7507.7	7507.7
1°	7436.7	7444.6	7461.3	7478.4	7451.5
2°	7297.5	7316.5	7340.2	7356.0	7326.7
3°	7102.6	7129.1	7154.1	7157.4	7130.0
4°	6801.5	6834.0	6860.5	6857.2	6822.9
5°	6368.7	6410.4	6435.0	6423.9	6380.7
6°	5796.6	5837.0	5868.5	5836.5	5778.5
7°	5084.0	5130.4	5163.8	5109.0	5038.1
8°	4258.1	4323.1	4356.5	4280.0	4207.1
9°	3475.9	3520.9	3554.8	3471.3	3397.1
10°	2779.5	2862.1	2843.1	2778.6	2714.6
11°	2186.1	2260.8	2264.1	2220.5	2157.8
12°	1711.5	1790.4	1810.3	1776.9	1721.3
13°	1352.4	1411.3	1444.3	1409.9	1357.1
14°	1076.4	1128.8	1171.0	1126.5	1073.6
15°	827.2	899.6	948.8	891.3	840.2
16°	657.9	717.7	776.2	710.8	669.9
17°	505.2	558.6	618.9	559.5	526.1
18°	399.9	442.1	508.5	447.2	418.0
19°	313.2	345.2	406.9	353.1	329.4
20°	240.8	276.1	321.1	284.4	269.1
22.5°	145.7	165.2	178.2	167.0	159.1
25°	90.5	97.4	89.1	101.6	95.1
26°	78.9	84.0	82.1	90.5	82.6
27°	63.1	69.6	64.5	71.0	68.7
28°	57.5	65.4	55.2	63.1	59.4
29°	40.4	43.6	39.4	42.2	42.2
30°	38.5	39.4	34.8	38.0	36.7
32.5°	30.2	28.3	23.2	24.6	23.7
35°	7.4	9.3	6.5	7.9	6.5
37.5°	11.1	10.2	12.1	11.6	11.1
40°	0.0	0.5	0.5	0.5	1.9
42.5°	8.4	5.1	4.6	3.2	5.6
45°	5.6	8.8	4.6	5.1	8.4
47.5°	0.0	0.5	0.0	0.9	0.9
50°	0.0	0.9	1.4	1.9	4.6
52.5°	0.9	5.6	2.8	5.1	7.4
55°	0.0	0.5	0.0	0.5	1.9
57.5°	1.9	0.9	1.9	1.9	8.4
60°	0.0	0.9	0.5	0.5	1.9
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.9
67.5°	0.0	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.5	0.0	0.0
80°	0.0	0.5	0.0	0.0	0.0
82.5°	0.0	0.5	0.9	1.4	0.9
85°	0.0	0.5	0.5	0.5	1.9
87.5°	0.0	0.9	1.4	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	1.4	1.9	0.0	3.7
72.5°	0.0	2.3	0.5	0.5	0.0



(END OF REPORT)